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A User's Guide to the NRC's Piping Fracture Mechanics Data Base (PIFRAC) *User Guide to Soils* **SBexpert Users Guide (version 1.0)** *Pump User's Handbook America in the Cold War: A Reference Guide* **Energy Research Abstracts Reactor Dosimetry in the 21st Century Guide to Mitigating Spacecraft Charging Effects** *Activation Foil Irradiation by Reactor Cavity Fission Sources* Activation Foil Irradiation with Californium Fission Sources *A Users Guide to Systems Methodology Advances in Fission-Track Geochronology* **Technical Abstract Bulletin** Publications of the National Institute of Standards and Technology ... Catalog **Monthly Catalogue, United States Public Documents Effects of Radiation on Materials** Scientific and Technical Aerospace Reports *Nuclear Science Abstracts* Monthly Catalog of United States Government Publications *Energy Research Abstracts* **Principles of Radiation Interaction in Matter and Detection** *Principles of Radiation Interaction in Matter and Detection* **Monte Carlo Techniques in Radiation Therapy Annual Book of ASTM Standards Code of Federal Regulations** *Federal Register* ARRL Ham Radio Operating Guide ERDA Energy Research Abstracts **Annual Book of ASTM Standards NASA Conference Publication** LDEF: 69 Months in Space. Third Post-Retrieval Symposium, Part 2 Fusion Energy Update **Reactor Dosimetry** Monte Carlo Techniques in Radiation Therapy **Accelerator Radiation Physics for Personnel and Environmental Protection Curve Fitting and Uncertainty Analysis of Charpy Impact Data Catalog of Copyright Entries. Third Series** Lunar Sourcebook *Exposures to Solar Particle Events in Deep Space Missions* **Monthly Catalog of United States Government Publications**

Activation Foil Irradiation with Californium Fission Sources Jan 20 2022

User Guide to Soils Sep 28 2022

Monthly Catalog of United States Government Publications Apr 11 2021

Energy Research Abstracts Mar 10 2021 Includes all works deriving from DOE, other related government-sponsored information and foreign nonnuclear information.

Annual Book of ASTM Standards Jun 01 2020

Code of Federal Regulations Oct 05 2020

Accelerator Radiation Physics for Personnel and Environmental Protection Nov 25 2019 Choice Recommended Title, January 2020 Providing a vital resource in tune with the massive advancements in accelerator technologies that have taken place over the past 50 years, Accelerator Radiation Physics for Personnel and Environmental Protection is a comprehensive reference for accelerator designers, operators, managers, health and safety staff, and governmental regulators. Up-to-date with the latest developments in the field, it allows readers to

effectively work together to ensure radiation safety for workers, to protect the environment, and adhere to all applicable standards and regulations. This book will also be of interest to graduate and advanced undergraduate students in physics and engineering who are studying accelerator physics. Features: Explores accelerator radiation physics and the latest results and research in a comprehensive single volume, fulfilling a need in the market for an up-to-date book on this topic Contains problems designed to enhance learning Addresses undergraduates with a background in math and/or science

ARRL Ham Radio Operating Guide Aug 03 2020

Activation Foil Irradiation by Reactor Cavity Fission Sources Feb 21 2022

Technical Abstract Bulletin Oct 17 2021

Guide to Mitigating Spacecraft Charging Effects Mar 22 2022 The definitive guide to the modern body of spacecraft charging knowledge—from first principles for the beginner to intermediate and advanced concepts The only book to blend the theoretical and practical aspects of spacecraft charging, Guide to Mitigating Spacecraft Charging Effects defines the environment that not only creates the aurora, but which also can have significant effects on spacecraft, such as disruption of science measurements and solar arrays from electrostatic discharge (ESD). It describes in detail the physics of the interaction phenomenon as well as how to construct spacecraft to enhance their survivability in the harsh environment of space. Combining the authors' extensive experience in spacecraft charging—and in their provision of design support to NASA, JPL, the commercial satellite market, and numerous other projects—this incredible book offers both a robust physics background and practical advice for neophytes in the field and experienced plasma physicists and spacecraft engineers. In addition to containing numerous equations, graphs, tables, references, and illustrations, Guide to Mitigating Spacecraft Charging Effects covers: Solar cell technology, especially higher voltage arrays, and the new design approaches that are appropriate for them Information about the space plasma environment New analytic computer codes to analyze spacecraft charging Spacecraft anomalies and failures which emphasized designs that are of greater importance than others

NASA Conference Publication Apr 30 2020

Principles of Radiation Interaction in Matter and Detection Feb 09 2021 This book, like the first and second editions, addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields, from low to high energy, including space physics and medical environment. It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter, detecting systems, performance of detectors and their optimization. The third edition includes additional material covering, for instance: mechanisms of energy loss like the inverse Compton scattering, corrections due to the LandauOCoPomeranchukOCoMigdal effect, an extended relativistic treatment of nucleusOConucleus screened Coulomb scattering, and transport of charged particles inside the heliosphere. Furthermore, the displacement damage (NIEL) in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained. This book will be of great use to graduate students and final-year undergraduates as a reference and supplement for courses in particle, astroparticle, space physics and instrumentation. A part of the book is directed toward courses in medical physics. The book can also be used by researchers in experimental particle physics at low, medium, and high energy who are dealing with instrumentation."

Pump User's Handbook Jul 26 2022 This text explains just how and why the best-of-class pump users are consistently achieving superior run lengths, low maintenance expenditures and unexcelled safety and reliability. Written by practicing engineers whose working career was marked by involvement in pump specification, installation, reliability assessment, component upgrading, maintenance cost reduction, operation, troubleshooting and all conceivable facets of pumping technology, this text describes in detail how to accomplish best-of-class performance and low life cycle cost.

Catalog of Copyright Entries. Third Series Sep 23 2019

A Users Guide to Systems Methodology Dec 19 2021

Federal Register Sep 04 2020

Curve Fitting and Uncertainty Analysis of Charpy Impact Data Oct 25 2019

Reactor Dosimetry in the 21st Century Apr 23 2022 This book presents the state of the art in reactor dosimetry as applied to nuclear power plants and to high performance research reactors, accelerator-driven systems and spallation sources. The reader will also find the latest advances in computer code development for radiation transport and shielding. In addition, the book focuses on radiation measurement techniques. Contents:Reactor Surveillance Dosimetry I: PLIMPoster Session AReactor Surveillance DosimetryII: Operational MonitoringExposure Parameters of Irradiated MaterialsCharacterisation of Neutron and Gamma Ray EnvironmentsDevelopments in Measurement TechniquesDosimetry for Irradiation Experiments, Fusion and Advanced SystemsCalculations and Uncertainty AnalysisPoster Session BNuclear DataBenchmarks and Standards Readership: Graduate students, researchers, manufacturers and industrial representatives in nuclear physics, reactor dosimetry and reactor physics. Keywords:Reactor Dosimetry;Reactor Physics;Accelerator Driven System;Spallation Source;Reactor Shielding;Monte Carlo and Deterministic Computational Methods;Radiation Transport Theory

Monte Carlo Techniques in Radiation Therapy Dec 07 2020 About ten years after the first edition comes this second edition of Monte Carlo Techniques in Radiation Therapy: Introduction, Source Modelling, and Patient Dose Calculations, thoroughly updated and extended with the latest topics, edited by Frank Verhaegen and Joao Seco. This book aims to provide a brief introduction to the history and basics of Monte Carlo simulation, but again has a strong focus on applications in radiotherapy. Since the first edition, Monte Carlo simulation has found many new applications, which are included in detail. The applications sections in this book cover the following: Modelling transport of photons, electrons, protons, and ions Modelling radiation sources for external beam radiotherapy Modelling radiation sources for brachytherapy Design of radiation sources Modelling dynamic beam delivery Patient dose calculations in external beam radiotherapy Patient dose calculations in brachytherapy Use of artificial intelligence in Monte Carlo simulations This book is intended for both students and professionals, both novice and experienced, in medical radiotherapy physics. It combines overviews of development, methods, and references to facilitate Monte Carlo studies.

Principles of Radiation Interaction in Matter and Detection Jan 08 2021 This book, like the first and second editions, addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields, from low to high energy, including space physics and medical environment. It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter, detecting systems, performance of detectors and their optimization. The third edition includes additional material covering, for instance: mechanisms of energy loss like the inverse Compton scattering, corrections due to the

Landau–Pomeranchuk–Migdal effect, an extended relativistic treatment of nucleus–nucleus screened Coulomb scattering, and transport of charged particles inside the heliosphere. Furthermore, the displacement damage (NIEL) in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained. This book will be of great use to graduate students and final-year undergraduates as a reference and supplement for courses in particle, astroparticle, space physics and instrumentation. A part of the book is directed toward courses in medical physics. The book can also be used by researchers in experimental particle physics at low, medium, and high energy who are dealing with instrumentation. Errata(s) Errata Contents:Electromagnetic Interaction of Radiation in MatterNuclear Interactions in MatterRadiation Environments and Damage in Silicon SemiconductorsScintillating Media and Scintillator DetectorsSolid State DetectorsDisplacement Damage and Particle Interactions in Silicon DevicesGas Filled ChambersPrinciples of Particle Energy DeterminationSuperheated Droplet (Bubble) Detectors and CDM SearchMedical Physics Applications Readership: Researchers, academics, graduate students and professionals in accelerator, particle, astroparticle, space, applied and medical physics. Keywords:Interactions Between Radiation/Particles and Matter;High;Intermediate and Low Energy Particle Physics;Medical Physics;Radiation/Particle Detection;Space Physics;Detectors;Semiconductors;Calorimeters;Chambers;Scintillators;Silicon Pixels;Radiation Damage;Single Event Effects;Solar CellsKey Features:Covers state-of-the-art detection techniques and underlying theoriesAddresses topics of considerable use for professionals in medical physics, nuclear engineering, and environmental studiesContains an updated reference table set of physical properties

America in the Cold War: A Reference Guide Jun 25 2022 Including extensive, balanced information, keen insights, and helpful research tools, this book provides a valuable resource for students or general readers interested in American policy, diplomacy, and conduct during the Cold War. • Provides a solid introduction to the Cold War era that incorporates information from the latest scholarship • Documents the myriad impacts, both obvious and subtle, of the Cold War on American culture • Supplies a thorough annotated bibliography that includes primary and secondary sources, both standards and very recent studies—ideal for students and others interested in research • Constitutes a convenient research tool for high school and undergraduate students writing term papers or preparing theses on Cold War-related topics

Annual Book of ASTM Standards Nov 06 2020

Scientific and Technical Aerospace Reports Jun 13 2021 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Reactor Dosimetry Jan 28 2020 Proceedings of the 8th ASTM-Euratom Symposium, held in Vail, Colorado, Aug.-Sept. 1993, to provide a forum for experts to discuss their latest results under the broad theme of dosimetry for the correlation of radiation effects. Preceded by a summary of the keynote presentations and followed by summa

Monthly Catalog of United States Government Publications Jun 20 2019 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

Fusion Energy Update Feb 27 2020

Advances in Fission-Track Geochronology Nov 18 2021 Since 1980, progress in research on the fission-track dating method and its applications to earth and related sciences has been evaluated during an International Workshop that takes place every four years. This volume contains a

selection of papers presented at the International Workshop held in Gent (Belgium) from 26 to 30 August, 1996. Primarily the articles will be of interest to the active fission-track scientists but the combination of research papers and critical reviews that is presented may also provide the interested non-specialist reader with a valuable insight into the fission-track dating method and its role in the earth sciences. This reader will undoubtedly note the evolution that the method has undergone during the last fifteen years, from a technique that was debated in most of its facets to an established chronometric tool with unique qualities in geothermochronology.

A User's Guide to the NRC's Piping Fracture Mechanics Data Base (PIFRAC) Oct 29 2022

SBexpert Users Guide (version 1.0) Aug 27 2022

LDEF: 69 Months in Space. Third Post-Retrieval Symposium, Part 2 Mar 30 2020

Energy Research Abstracts May 24 2022

Nuclear Science Abstracts May 12 2021

Publications of the National Institute of Standards and Technology ... Catalog Sep 16 2021

Effects of Radiation on Materials Jul 14 2021 Symposium held in Nashville, Tennessee, June 1990. Almost two-thirds of these 91 papers are authored by researchers outside of the US (including information on research in the former USSR, Japan, and Europe). Topics include: current commercial power reactor systems; microstructural characterization

ERDA Energy Research Abstracts Jul 02 2020

Exposures to Solar Particle Events in Deep Space Missions Jul 22 2019

Lunar Sourcebook Aug 23 2019 The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon.

Monte Carlo Techniques in Radiation Therapy Dec 27 2019 Modern cancer treatment relies on Monte Carlo simulations to help radiotherapists and clinical physicists better understand and compute radiation dose from imaging devices as well as exploit four-dimensional imaging data. With Monte Carlo-based treatment planning tools now available from commercial vendors, a complete transition to Monte Carlo-based dose calculation methods in radiotherapy could likely take place in the next decade. Monte Carlo Techniques in Radiation Therapy explores the use of Monte Carlo methods for modeling various features of internal and external radiation sources, including light ion beams. The book—the first of its kind—addresses applications of the Monte Carlo particle transport simulation technique in radiation therapy, mainly focusing on external beam radiotherapy and brachytherapy. It presents the mathematical and technical aspects of the methods in particle transport simulations. The book also discusses the modeling of medical linacs and other irradiation devices; issues specific to electron, photon, and proton ion beams and brachytherapy; and the optimization of treatment planning, radiation dosimetry, and quality assurance. Useful to clinical physicists, graduate students, and researchers, this book provides a detailed, state-of-the-art guide to the fundamentals, application, and customization of Monte Carlo techniques in radiotherapy. Through real-world examples, it illustrates the use of Monte Carlo modeling and simulations in dose calculation, beam delivery, kilovoltage and megavoltage imaging, proton radiography, device design, and much more.

Monthly Catalogue, United States Public Documents Aug 15 2021